

Fig.1

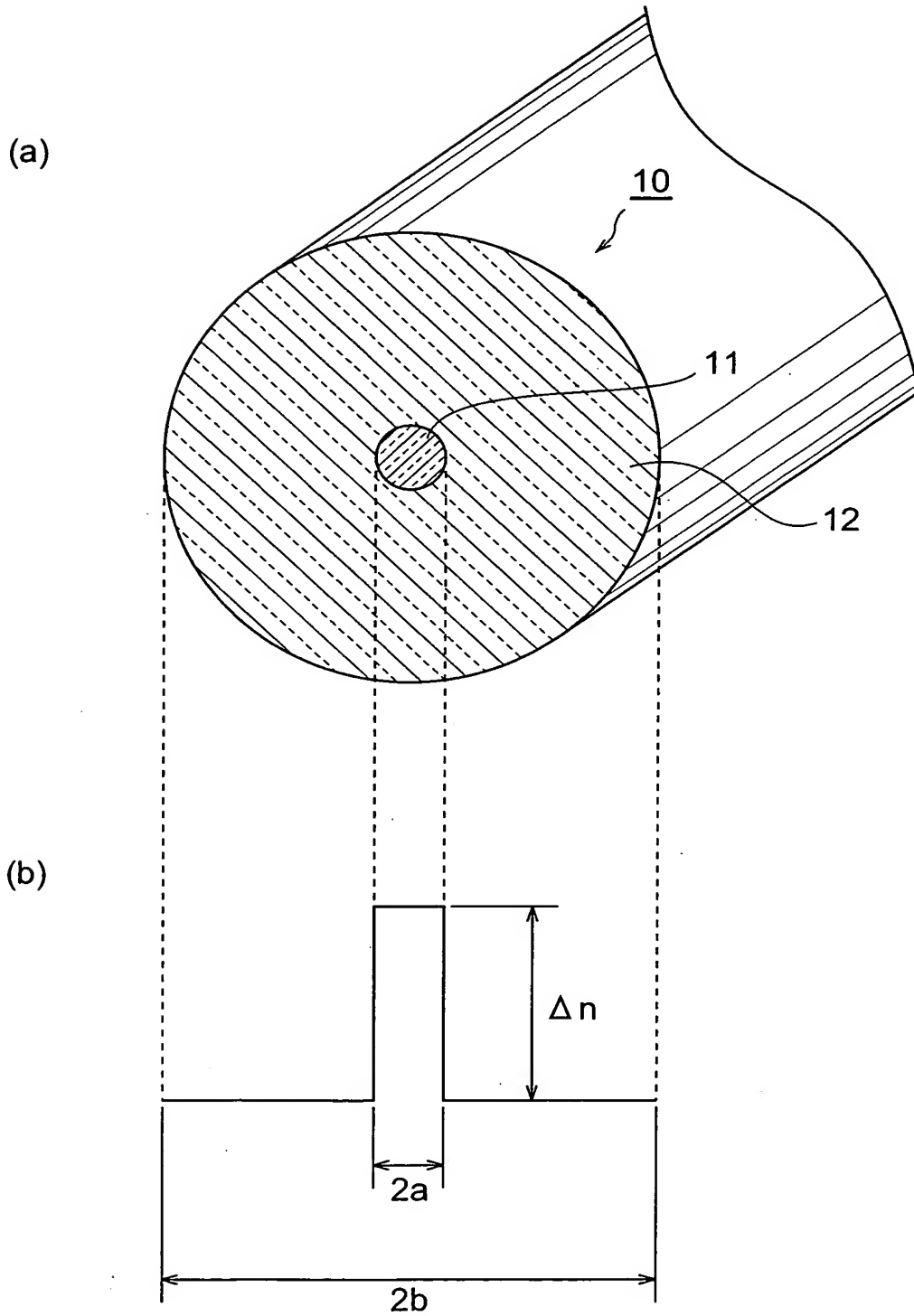
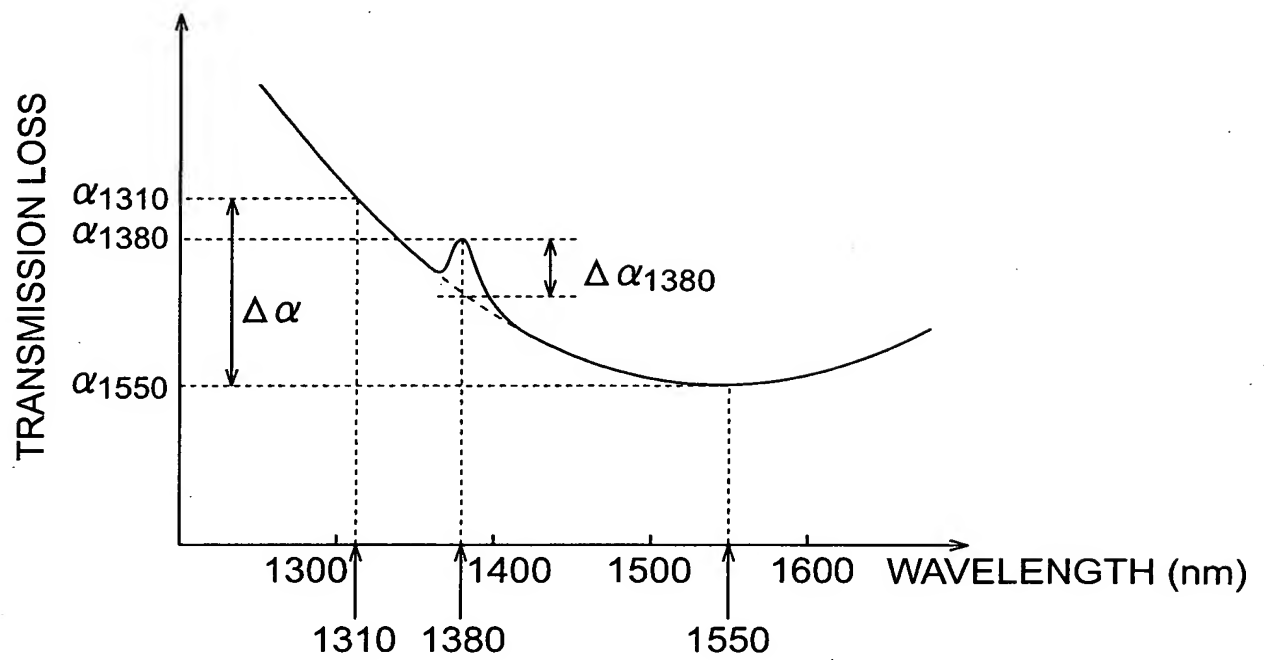
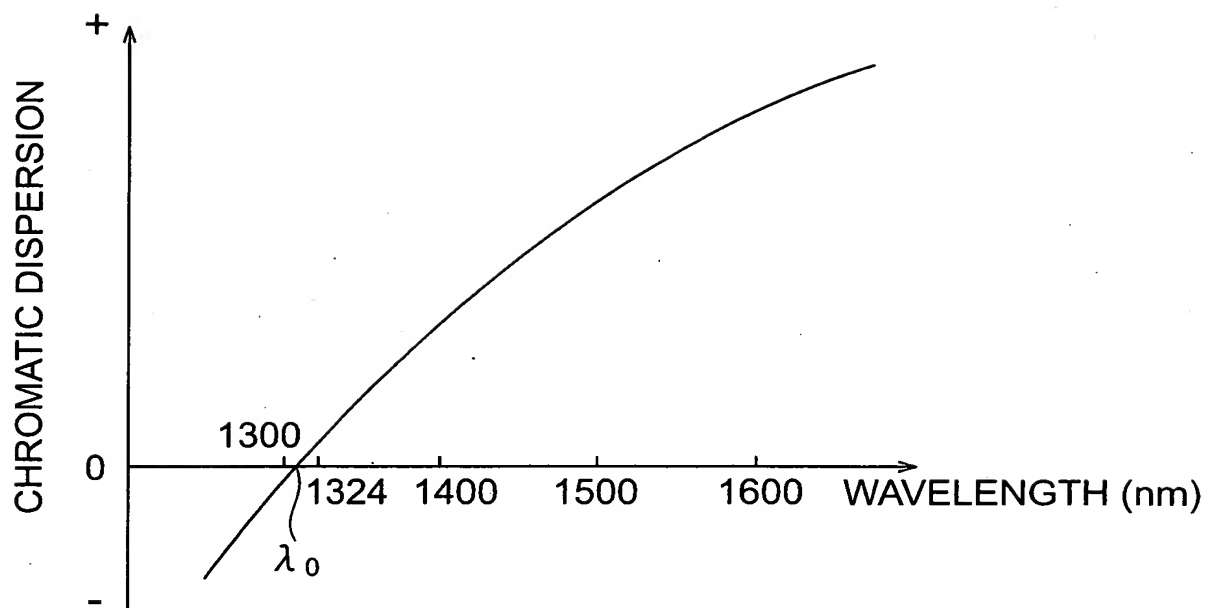


Fig.2

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Fig.3

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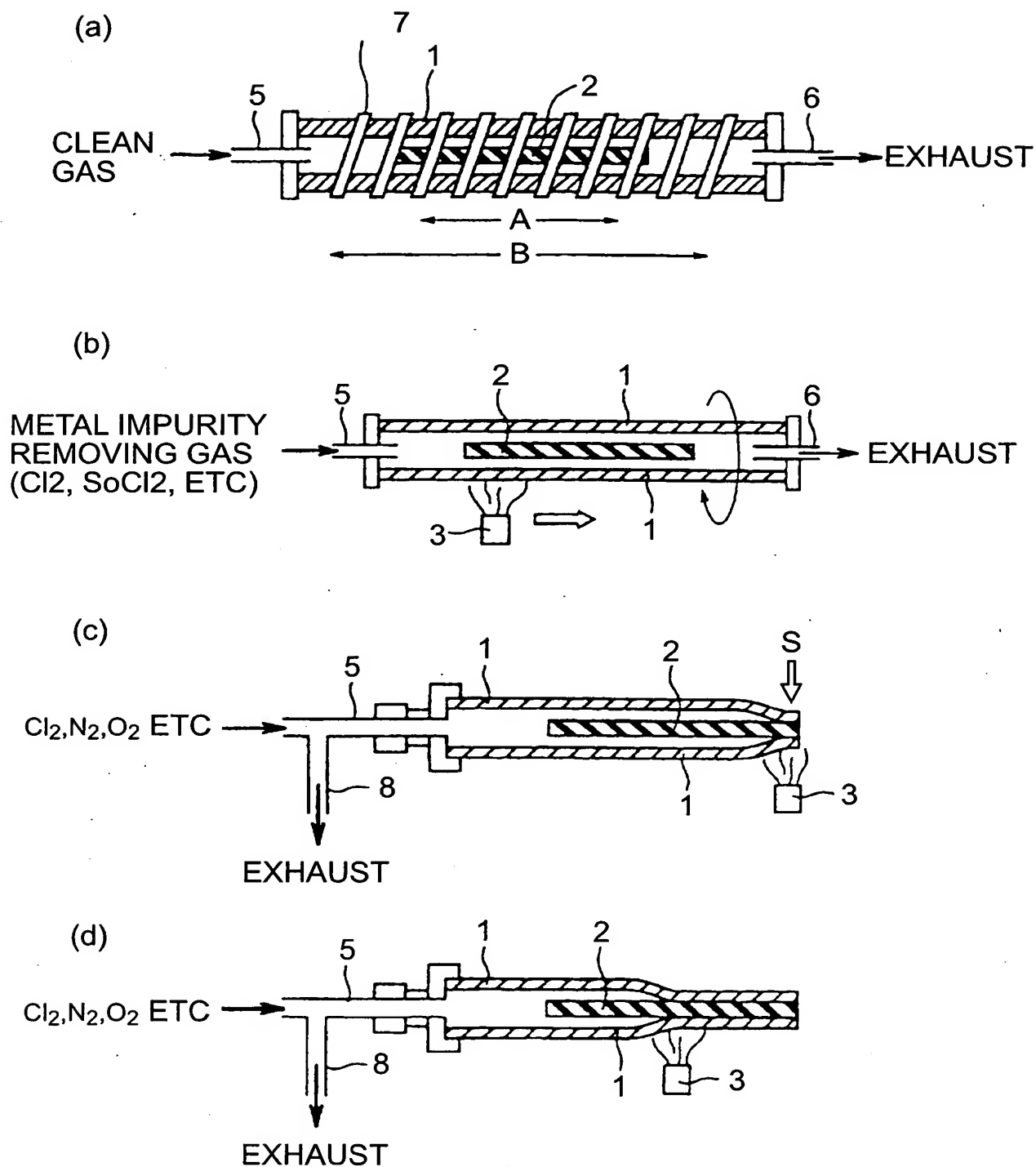
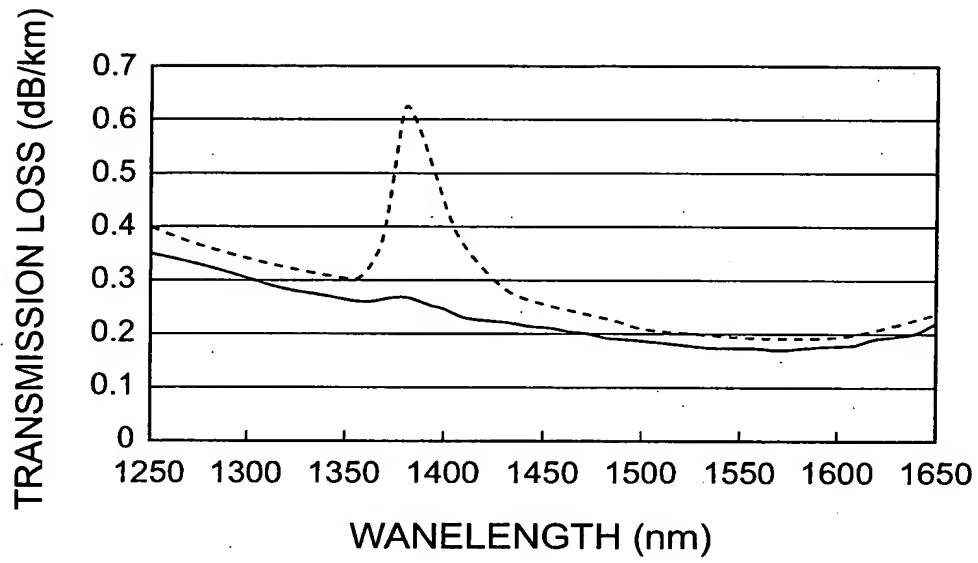
Fig.4

Fig.5

	SAMPLE A	SCOMPARATIVE EXAMPLE A
TRANSMISSION LOSS α_{1310}	0 . 29	0 . 33
TRANSMISSION LOSS α_{1380}	0 . 27	0 . 62
TRANSMISSION LOSS α_{1550}	0 . 17	0 . 19
LOSS DIFFERENCE $\Delta \alpha (\alpha_{1550} - \alpha_{1310})$	0 . 12	0 . 14
OH-RELATED LOSS INCREASE $\Delta \alpha_{1310}$	0 . 03	0 . 31
CABLE CUTOFF WAVELENGTH	1220	
ZERO DISPERSION WAVELENGTH	1310	
MODE FIELD DIAMETER (AT WAVELENGTH OF 1550 nm)	9 . 7	
BENDING LOSS (AT WAVELENGTH OF 1550 nm AND IN BENDING OF 20nm)	2	

Fig.6



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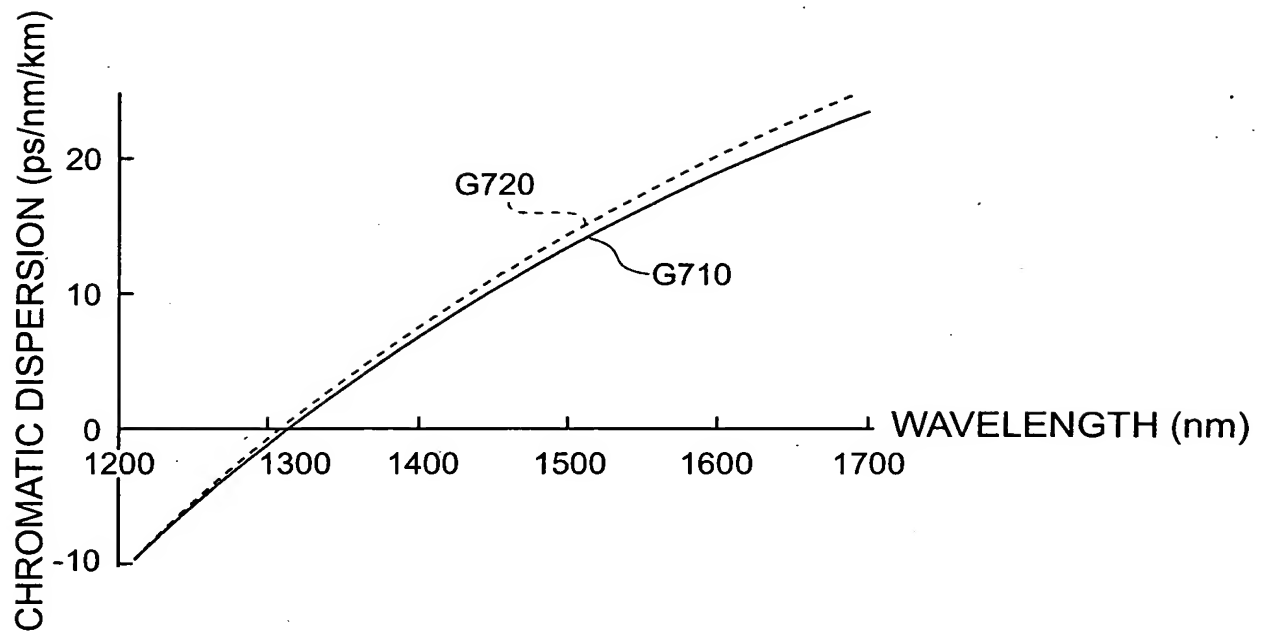
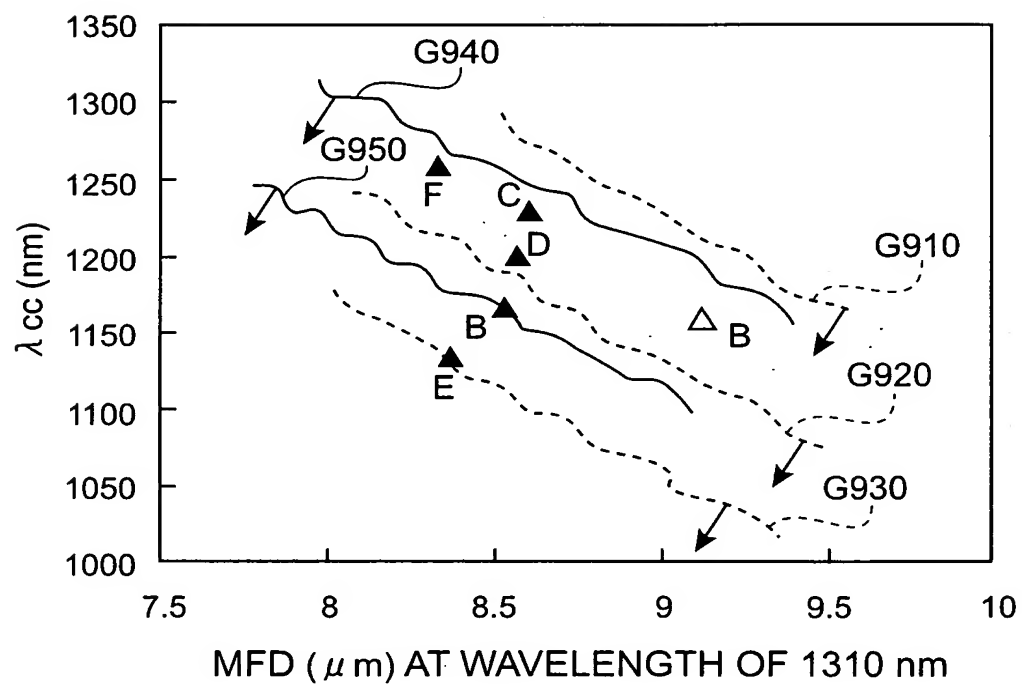
Fig.7

Fig.8

	Δn	2a	CABLE CUTOFF WAVE- LENGTH (nm)	MFD AT 1310nm (μ m)	ZERO DISPER- SION WAVE- LENGTH (nm)	CHRO- MATIC DISPER- SION AT 1550 nm (ps/nm/km)	DISPER- SION SLOPE AT 1550 nm (ps/nm ² /km)	ZERO DISPER- SION SLOPE (ps/nm ² /km)	TRANS- MISSION LOSS AT 1310 nm (dB/km)	TRANS- MISSION LOSS AT 1380 nm (dB/km)	OH- RELATED LOSS INCREASE AT WAVE- LENGTH OF 1380nm (dB/km)	TRANS- MISSION LOSS AT WAVE- LENGTH OF 1550nm (dB/km)	FIBER STRUC- TURE (CORE MATERIAL /CLADDING MATERIAL)
SAMPLE B	0.38	7.80	1166	8.53	1318	14.97	0.0540	0.0793	≤ 0.32	≤ 0.31	≤ 0.10	≤ 0.176	PURE SILICA GLASS/ F-DOPED GLASS
SAMPLE C	0.935	8.16	1230	8.06	1313	15.46	0.0544	0.0806					
SAMPLE D	0.39	8.02	1200	8.57	1313	15.39	0.0537	0.0801					
SAMPLE E	0.395	7.56	1135	8.37	1318	14.86	0.0531	0.0789					
SAMPLE F	0.42	7.60	1260	8.33	1307	15.75	0.0536	0.0816					
SAMPLE G	0.385	8.14	1184	8.72	1312	15.90	0.0547	0.0800					
SAMPLE H	0.38	8.52	1226	8.92	1304	16.66	0.0548	0.0819					
SAMPLE B	0.36	8.10	1133	8.92	1317	15.39	0.0544	0.0790					
COMPARATIVE EXAMPLE	-	-	1158	9.13	1316	16.50	0.0584	0.0850	0.33	0.62	0.31	0.19	Ge-DOPED GLASS /PURE SILICA- GLASS

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Fig.9

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Fig.10

